(15) *Sample exchange method.* An equipment testing procedure wherein transfer standards are tested to compare the performance of two or more units of the same inspection equipment installed at different locations. One unit of the equipment used in the test shall be standard inspection equipment. (See also direct comparison method.)

(16) *Sieves.* Approved laboratory devices with perforations for use in separating particles of various sizes.

(17) *Standard inspection equipment.* An approved unit of inspection equipment that is designated by the Service for use in determining the accuracy of official inspection equipment.

(18) *Test weight.* The avoirdupois weight of the grain or other material in a level-full Winchester bushel.

(19) *Test weight apparatus.* An approved laboratory device used to measure the test weight (density) of a sample of grain.

(20) *Transfer standard.* The medium (device or material) by which traceability is transferred from one inspection equipment standard unit to another unit.

(21) *Winchester bushel.* A container that has a capacity of 2,150.42 cubic inches (32 dry quarts).

§ 801.3 Tolerances for barley pearlers.

The maintenance tolerances for barley pearlers used in performing official inspection services shall be:

Item	Tolerance
Timer switch:	
0 to 60 seconds	±5 seconds, deviation from standard clock.
61 to 90 seconds ...	±7 seconds, deviation from standard clock.
Over 90 seconds	±10 seconds, deviation from standard clock.
Pearled portion	±1.0 gram, mean deviation from standard barley pearler using barley.

§ 801.4 Tolerances for dockage testers.

The maintenance tolerances for dockage testers used in performing official inspection services shall be:

Item	Tolerance
Air separation	±0.10 percent, mean deviation from standard dockage tester using Hard Red Winter wheat.
Riddle separation	±0.10 percent, mean deviation from standard dockage tester using Hard Red Winter wheat.
Sieve separation	±0.10 percent, mean deviation from standard dockage tester using Hard Red Winter wheat.
Total dockage separation.	±0.15 percent, mean deviation from standard dockage tester using Hard Red Winter wheat.

§ 801.5 Tolerance for diverter-type mechanical samplers.

The maintenance tolerance for diverter-type mechanical samplers (primary, or primary and secondary in combination) used in performing official inspection services shall be ±10 percent, mean deviation from standard sampling device using corn or the same type of grain that the system will be used to sample.

§ 801.6 Tolerances for moisture meters.

The maintenance tolerances for moisture meters used in performing official inspection services shall be:

(a) Headquarters standard meters.

Moisture range	Tolerance	
	Direct comparison	Sample exchange
Low	±0.05 percent moisture, mean deviation from National standard moisture meter using Hard Red Winter wheat.	
Mid	±0.05 percent moisture, mean deviation from National standard moisture meter using Hard Red Winter wheat.	
High	±0.05 percent moisture, mean deviation from National standard moisture meter using Hard Red Winter wheat.	

(b) All other than Headquarters standard meters.

Moisture range	Tolerance	
	Direct comparison	Sample exchange
Low	±0.15 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.	±0.20 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.
Mid	±0.10 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.	±0.15 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.
High	±0.15 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.	±0.20 percent moisture, mean deviation from standard moisture meter using Hard Red Winter wheat.

§ 801.7 Tolerances for near-infrared spectroscopy (NIRS) analyzers.

The chemical reference protein determinations used to reference and calibrate official NIRS instruments shall be performed in accordance with ''Comparison of Kjeldahl Method for Determination of Crude Protein in Cereal Grains and Oilseeds with Generic Combustion Method: Collaborative Study,'' July/August 1993, Ronald Bicsak, Journal of AOAC International Vol. 76, No. 4, 1993, and subsequently approved by the AOAC International as the Combustion method, AOAC International Method 992.23. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Director, Quality Assurance and Research Division, Federal Grain Inspection Service, 10383 North Executive Hills Blvd., Kansas City, MO 64153–1394. Copies may be inspected at the above address or at the Office of the Federal Register, 800 North Capitol Street, NW., 7th Floor, Suite 700, Washington, DC 20408.

(a) *NIRS wheat protein analyzers.* The maintenance tolerances for the NIRS analyzers used in performing official inspections for determination of wheat protein content shall be ±0.15 percent mean deviation from the national standard NIRS instruments, which are referenced and calibrated to the Combustion method, AOAC International Method 992.23.

(b) *NIRS soybean oil and protein analyzers.* The maintenance tolerances for the NIRS analyzers used in performing official inspections for determination of soybean oil shall be ±0.20 percent mean deviation from the national standard NIRS instruments, which are referenced and calibrated to the FGIS solvent oil extraction method, and for determination of protein content shall be ±0.20 percent mean deviation from the national standard NIRS instruments, which are referenced and calibrated to the Combustion method, AOAC International Method 992.23.

[59 FR 31506, June 20, 1994]

§ 801.8 Tolerances for sieves.

The maintenance tolerances for sieves used in performing official inspection services shall be:

(a) Thickness of metal: ±0.0015 inch.

(b) Accuracy of perforation: ±0.001 inch from design specification.

(c) Sieving accuracy:

Sieve description	Tolerance	
	Direct comparison	Sample exchange
.064 x 3/8 inch oblong	±0.2 percent, mean deviation from standard sieve using wheat.	±0.3 percent, mean deviation from standard sieve using wheat.
5/64 x 3/4 inch slotted	±0.3 percent, mean deviation from standard sieve using barley.	±0.5 percent, mean deviation from standard sieve using barley.
5.5/64 x 3/4 inch slotted	±0.5 percent, mean deviation from standard sieve using barley.	±0.7 percent, mean deviation from standard sieve using barley.
6/64 x 3/4 inch slotted	±0.7 percent, mean deviation from standard sieve using barley.	±1.0 percent, mean deviation from standard sieve using barley.

§ 801.9 Tolerances for test weight apparatuses.

The maintenance tolerances for test weight per bushel apparatuses used in performing official inspection services shall be: